



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

GP/2184
#2
3/6/02
AW
RECEIVED

JUN 22 2001

Applicants: **Vlad MITLIN, Richard G.C. WILLIAMS**

Technology Center 2100

Case: **3Com-72/1 (3292.TDC.US.P)**

Serial No.: **09/741,636**

Filed: **December 20, 2000**

Group Art Unit: **2184**

Confirmation No.: **5636**

Examiner:

Title: **PERFORMANCE EVALUATION OF MULTICARRIER CHANNELS**

COMMISSIONER FOR PATENTS
Washington, D.C. 20231

S I R:

INFORMATION DISCLOSURE STATEMENT

The applicants respectfully request that the following references be considered in the examination of the above-identified application. A copy of each reference is enclosed.

United States Patents

<u>Patent Number</u>	<u>Inventor</u>	<u>Date Issued</u>	<u>Class</u>
AA. 6,075,821	Kao et al	June 13, 2000	375/260
✓AB. 6,072,779	Tzannes et al	June 6, 2000	370/252
✓AC. 6,064,692	Chow	May 16, 2000	375/219
✓AD. 5,852,633	Levin et al	Dec. 22, 1998	375/260
✓AE. 5,479,447	Chow et al	Dec. 26, 1995	375/260



RECEIVED
JUN 22 2001
Technology Center 2100

Publications

- AF. D. Bertsekas et al, Data Networks, (©1992, Prentice Hall), pages 64-86 and 149-240.
- ✓ AG. John A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, May 1990, pages 5-14.
- ✓ AH. Walter Y. Chen, DSL: Simulation Techniques and Standards Development for Digital Subscriber Line Systems, (©1998, MacMillan Technical Publishing), pages 465, 11, and 119-121.
- AI. Peter S. Chow, "Bandwidth Optimized Digital Transmission Techniques for Spectrally Shaped Channels with Impulse Noise", Ph.D. thesis, Stanford University, May 1993, pages ii-187.
- ✓ AJ. Chow et al, "A Practical Discrete Multitone Transceiver Loading Algorithm for Data Transmission over Spectrally Shaped Channels", IEEE Transactions on Communications, Vol. 43, No. 2/3/4, February/March/April 1995, pages 773-775.
- ✓ AK. N.G. de Bruijn, Asymptotic Methods in Analysis, (©1981, Dover Publications, Inc.), pages 22-23.
- ✓ AL. F.J. MacWilliams et al, Chapter 10, Section 10, "Reed-Solomon and Justesen Codes - Decoding RS codes", The Theory of Error-Correcting Codes, (©1977, Elsevier Science), page 306.
- ✓ AM. V.S. Mitlin, Nonlinear Dynamics of Reservoir Mixtures, (©1993, CRC Press), pages 173-177.
- ✓ AN. J. Proakis, "Digital Communications", McGraw-Hill, New York, 1995, pages 260-263, 278-282, 441, 464-67.
- ✓ AO. ITU Recommendation G.992.1: Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva, 1999, pages i-240.



RECEIVED

JUN 22 2001

Technology Center 2100

AP. ✓ ITU Recommendation G.992.2: Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva, 1999, pages i-165.

AQ. ✓ Numerical Recipes in C: The Art of Scientific Computing, Cambridge, MA, 1992, pages 212-221.

REMARKS

Under rule 37 C.F.R. 1.98(a) (effective March 16, 1992), since all of the above-cited references are in the English language, the applicants submit that no specific comments are necessary for any of these.

For the Examiner's convenience, the applicants have attached a completed modified Form PTO/SB/08A&B form hereto.

Respectfully submitted,

June 15, 2001

Peter L. Michaelson, Attorney
Reg. No. 30,090
Customer No. 007265
(732) 530-6671

MICHAELSON & WALLACE
Counselors at Law
Parkway 109 Office Center
328 Newman Springs Road
P.O. Box 8489
Red Bank, New Jersey 07701



CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on **June 15, 2001**, with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

Robert L. McQuinn
Signature

30,090
Reg. No.

RECEIVED

JUN 22 2001

Technology Center 2100



Please type a plus sign (+) inside this box → ☒

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	09/741,636
Filing Date	December 20, 2000
First Named Inventor	Vlad MITLIN
Group Art Unit	2184
Examiner Name	
Attorney Docket Number	3Com-72/1 (3292.TDC.US.P)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AF	D. Bertsekas et al, Data Networks, (©1992, Prentice Hall), pages 64-86 and 149-240.	
	AG	John A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, May 1990, pages 5-14.	
	AH	Walter Y. Chen, DSL: Simulation Techniques and Standards Development for Digital Subscriber Line Systems, (©1998, MacMillan Technical Publishing), pages 465, 11, and 119-121.	
	AI	Peter S. Chow, "Bandwidth Optimized Digital Transmission Techniques for Spectrally Shaped Channels with Impulse Noise", Ph.D. thesis, Stanford University, May 1993, pages ii-187.	
	AJ	Chow et al, "A Practical Discrete Multitone Transceiver Loading Algorithm for Data Transmission over Spectrally Shaped Channels", IEEE Transactions on Communications, Vol. 43, No. 2/3/4, February/March/April 1995, pages 773-775.	
	AK	N.G. de Bruijn, Asymptotic Methods in Analysis, (©1981, Dover Publications, Inc.), pages 22-23.	
	AL	F.J. MacWilliams et al, Chapter 10, Section 10, "Reed-Solomon and Justesen Codes - Decoding RS codes", The Theory of Error-Correcting Codes, (©1977, Elsevier Science), page 306.	
	AM	V.S. Mitlin, Nonlinear Dynamics of Reservoir Mixtures, (©1993, CRC Press), pages 173-177.	
	AN	J. Proakis, "Digital Communications", McGraw-Hill, New York, 1995, pages 260-263, 278-282, 441, 464-67.	
	AO	ITU Recommendation G.992.1: Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva, 1999, pages i-240.	
	AP	ITU Recommendation G.992.2: Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva, 1999, pages i-165.	

RECEIVED

JUN 22 2001

Examiner Signature		Date Considered	Technology Center 2100
--------------------	--	-----------------	------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	3	of	3
-------	---	----	---

Complete if Known

Application Number	09/741,636
--------------------	------------

Filing Date	December 20, 2000
--------------------	-------------------

First Named Inventor	Vlad MITLIN
----------------------	-------------

Group Art Unit	2184 2133
----------------	----------------------

Examiner Name

Attorney Docket Number	3Com-72/1 (3292.TDC.US.P)
------------------------	---------------------------

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

(3c72.1-1449/64/ks)